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UNIVERSITY RESEARCH INSTRUMENTATION PROCUREMENT(U)  
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ENGINEERING S G WILSON APR 86 AFOSR-TR-87-8969

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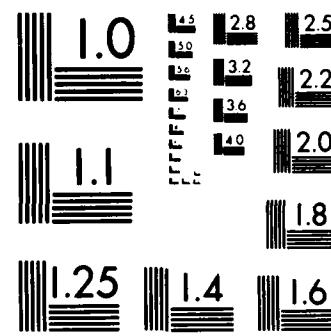
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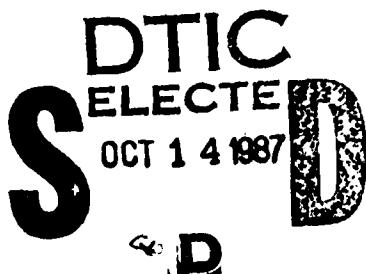
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REPORT DOCUMENTATION PAGE												
1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS										
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited										
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE												
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		5. MONITORING ORGANIZATION REPORT NUMBER(S) <b>AFOSR-TR-87-0969</b>										
6a. NAME OF PERFORMING ORGANIZATION <b>University of Virginia</b>	6b. OFFICE SYMBOL (If applicable) <b>NM</b>	7a. NAME OF MONITORING ORGANIZATION <b>AFOSR/NM</b>										
6c. ADDRESS (City, State and ZIP Code) <b>Thorton Hall Charlottesville, VA 22901</b>		7b. ADDRESS (City, State and ZIP Code) <b>Bldg 410 Bolling AFB DC 20332-6448</b>										
8a. NAME OF FUNDING/SPONSORING ORGANIZATION <b>AFOSR</b>	8b. OFFICE SYMBOL (If applicable) <b>NM</b>	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER <b>AFOSR-85-0102</b>										
8c. ADDRESS (City, State and ZIP Code) <b>Bldg 410 Bolling AFB DC 20332-6448</b>		10. SOURCE OF FUNDING NOS. <table border="1"> <tr> <td>PROGRAM ELEMENT NO. <b>61102F</b></td> <td>PROJECT NO. <b>2917</b></td> <td>TASK NO. <b>A5</b></td> <td>WORK UNIT NO.</td> </tr> </table>		PROGRAM ELEMENT NO. <b>61102F</b>	PROJECT NO. <b>2917</b>	TASK NO. <b>A5</b>	WORK UNIT NO.					
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11. TITLE (Include Security Classification) <b>Professor Stephen Wilson</b>												
13a. TYPE OF REPORT <b>Final</b>	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Yr., Mo., Day) <b>15. PAGE COUNT 3</b>										
16. SUPPLEMENTARY NOTATION												
17. COSATI CODES <table border="1"> <tr> <th>FIELD</th> <th>GROUP</th> <th>SUB. GR.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		FIELD	GROUP	SUB. GR.							18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB. GR.										
19. ABSTRACT (Continue on reverse if necessary and identify by block number)												
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS <input type="checkbox"/>		21. ABSTRACT SECURITY CLASSIFICATION <b>Unclassified</b>										
22a. NAME OF RESPONSIBLE INDIVIDUAL <b>Major Woodruff</b>		22b. TELEPHONE NUMBER <b>(703) 276-20963</b>	22c. OFFICE SYMBOL <b>NM</b>									


  
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AFOSR-TK- 87-0969

FINAL REPORT

to

Air Force Office of Scientific Research  
Bolling Air Force Base  
Washington, D.C. 20332

University Research Instrumentation Procurement

by

Stephen G. Wilson  
Department of Electrical Engineering  
Thornton Hall  
University of Virginia  
Charlottesville, VA 22901

April, 1986



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This report describe procurements made under contract number AFOSR-85-0120, as part of the Department of Defense, University Research Instrumentation Program. The equipment purchased is in support of analysis and encoding of color motion imagery. Installation of all equipment has been completed and is functional, attached to a VAX 11/750 in the Department of Electrical Engineering and the Center for Computer Aided Engineering.

The major expenditure was for a Gould IP8400 imaging system with high-speed (30 frames per second) color storage and display. This system is operated as a peripheral on the VAX 11/750 running UNIX. To support image processing tasks, a CDA Array Processor was also purchased and attached to the system bus. Finally, to aid in data presentation, a hard-copy print camera was purchased from NISE Corp. A Complete list of expenditures is included in Table I.

The equipment is presently being used for a variety of image processing tasks, both for still and moving images. Plans include doing computer vision research and interdisciplinary work with groups who need real-time display of imagery.

TABLE I

## Gould

IP8400 Processor Controller	18,450.00
IP85M Image Memory	12,600.00
IP85 VOC Video Output Control	2,240.00
IP85TB2 Trackball	2,520.00
IP85CG Dual Cursor Generator	1,350.00
IP85AN Alphanumeric Overlay Generator	990.00
IP85DVP Digital Video Processor	5,400.00
IP85VD1 Video Signal Digitizer	8,640.00
IP85PILL External Sync Receiver	1,350.00
IP8DMA DEC DMA Interface	1,620.00
IP8MS1 Multi-Sync Model	765.00
CMI9LC RGB Monitor, 19 Inch	2,800.00
SIP8DEMVMS Dec Demo. Software	540.00
IP85DOC I Documentation	.00
IP85DOCII Documentation	.00
IP85DOCIV Documentation	.00
SIP8LPVMS LIPS V.4.0. (Second User)	1,800.00
CX25 Coaxial Video Cable, 25 Foot	224.00
M20-1 HI-Speed Disk System, 300 MB	44,325.00

## CDA

Array Processor with 512 Kb Memory	20,000.00
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## NISE, CORP.

3500 F Film Recorder	3,300.00
V10 16,77KHZ Horizontal Sweep Rate	.00
R10 RGB	.00
P10 100-120 VAC, 50/60 HZ	.00
C50 Camera with Polaroid CB-71 Black	950.00

Total	129,864.00
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